



Republic Square – Master Plan Update and Phase II Design



## PROJECT SCOPE

- Master Plan Update - engage stakeholders and the public to assess and update the existing Republic Square Master Plan.
- Phase II Design and Construction - prepare construction documents, technical specifications, oversee construction of the Phase II improvements.
- Public-Private Partnership Report - create a strategy for sustainable public-private partnerships for Republic Square Park's enhancement, operations, and maintenance.

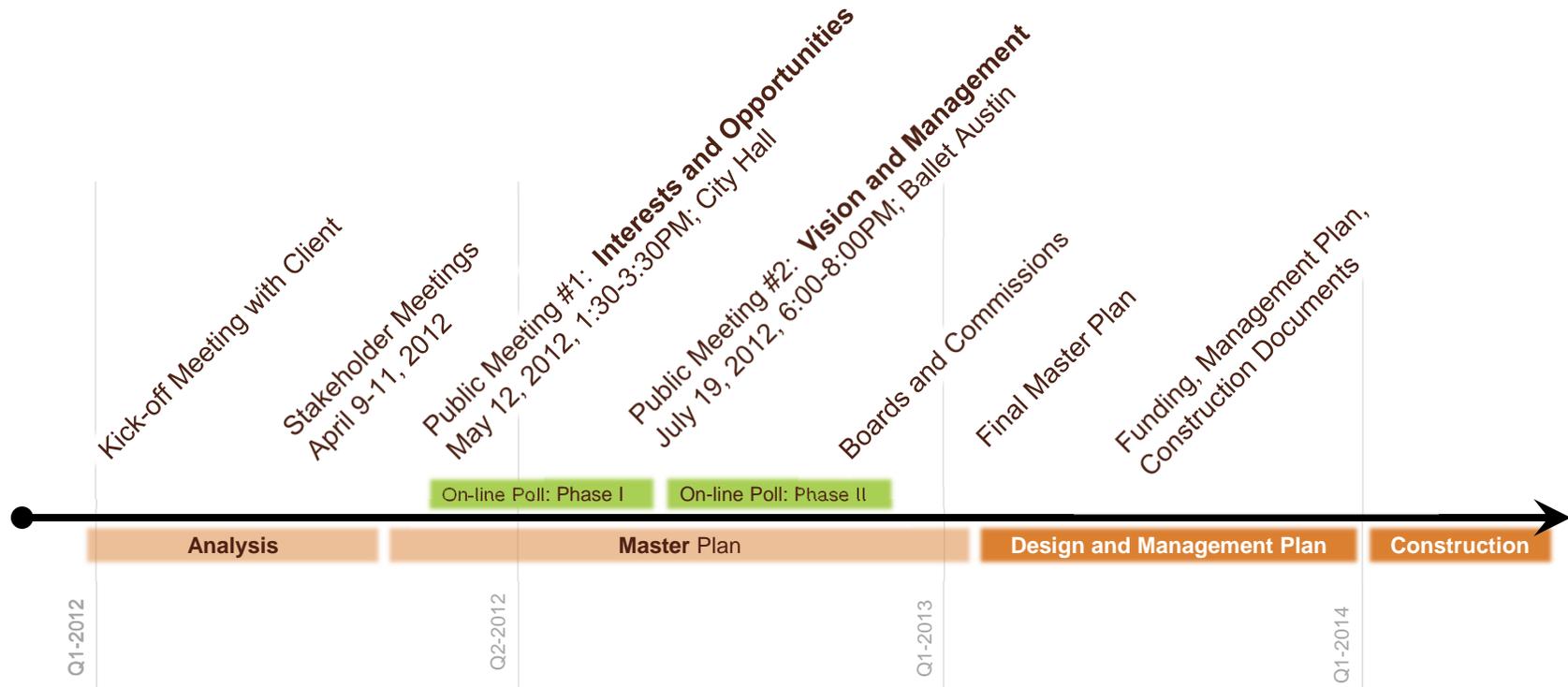
***A strong vision.***

***A supported vision.***

***Sustainable and balanced.***



# PROJECT TIMELINE



# EXISTING TREES

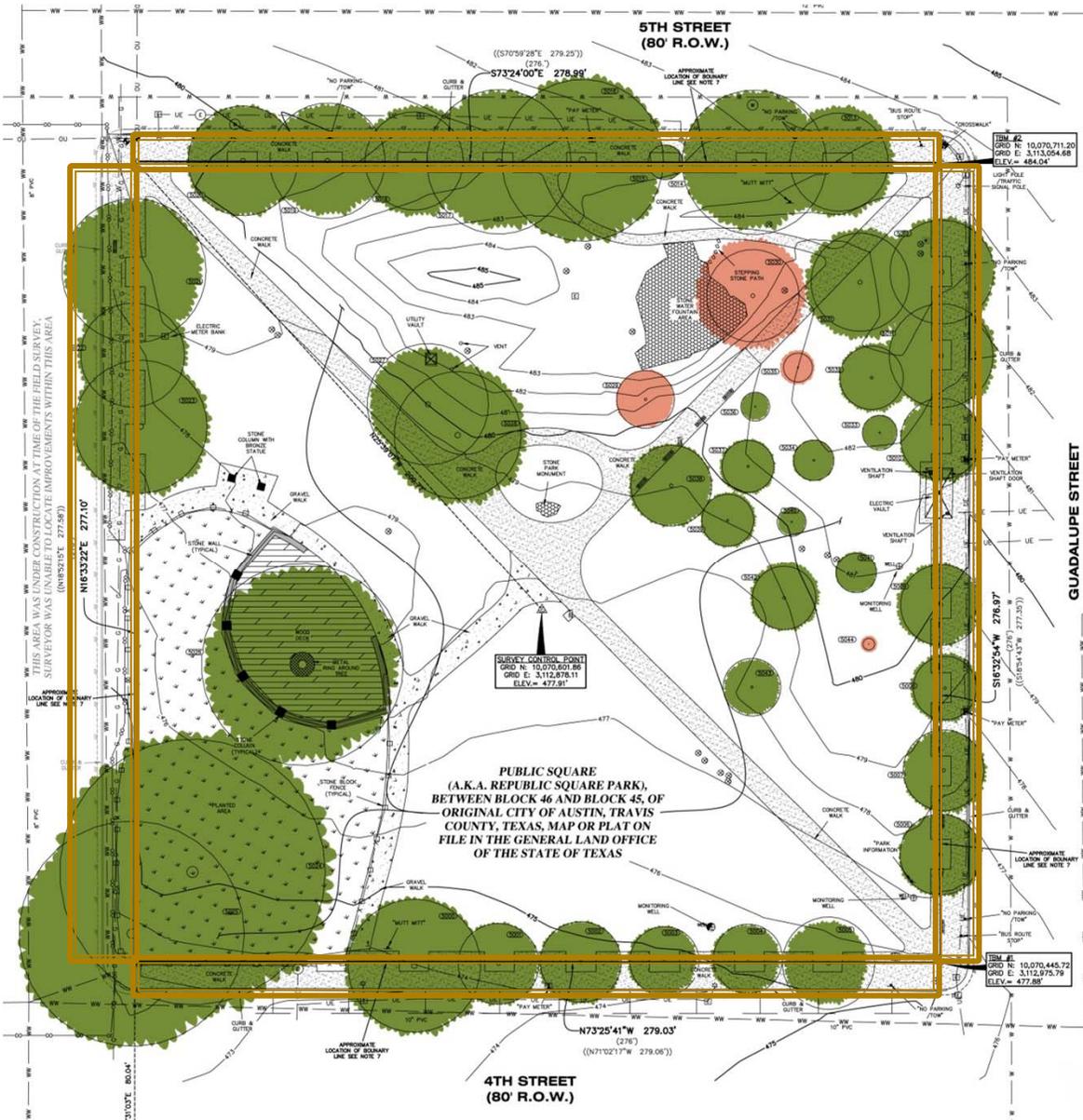


## TREE LIST

NUMBER	DESCRIPTION
5000	23" LIVE OAK
5001	14" LIVE OAK
5002	14" LIVE OAK
5003	12" LIVE OAK
5004	12" LIVE OAK
5005	16" LIVE OAK
5006	14" LIVE OAK
5007	14" LIVE OAK
5008	11" LIVE OAK
5009	14" LIVE OAK
5010	14" LIVE OAK
5011	18" LIVE OAK
5012	18" LIVE OAK
5013	17" LIVE OAK
5014	25" LIVE OAK
5015	6" LIVE OAK
5016	28" LIVE OAK
5017	25" LIVE OAK
5018	17" LIVE OAK
5019	20" LIVE OAK
5020	19" LIVE OAK
5021	25" LIVE OAK
5022	18" LIVE OAK
5023	23" LIVE OAK
5024	46" LIVE OAK
5025	39" LIVE OAK
5026	35" LIVE OAK
5027	21" CYPRESS
5028	22" CYPRESS
5029	10" CEDAR ELM
5030	16" CEDAR ELM
5031	17" LIVE OAK
5032	11" BURR OAK
5033	— MOUNTAIN LAUREL
5034	7" CHINABERRY
5035	5" LIVE OAK
5036	5" LIVE OAK
5037	9" CEDAR ELM
5038	14" LIVE OAK
5039	9" CEDAR ELM
5040	5" CEDAR ELM
5041	7" CEDAR ELM
5042	11" CEDAR ELM
5043	10" CEDAR ELM
5044	2" CEDAR ELM



# CRZ DATA



## 4th street; 2833sf

%row as CRZ existing- 73%  
 %row as 50% CRZ existing- 25%  
 %row as impervious cover existing- (2613sf) 92%

## Guadalupe street; 2844sf

%row as CRZ existing- 65%  
 %row as 50% CRZ existing- 22.5%  
 %row as impervious cover existing- (2454sf) 86%

## 5th street; 3071sf

%row as CRZ existing- 75.6%  
 %row as 50% CRZ existing- 40.5%  
 %row as impervious cover existing- (2864sf) 93%

## San Antonio street (plaza); 3355sf

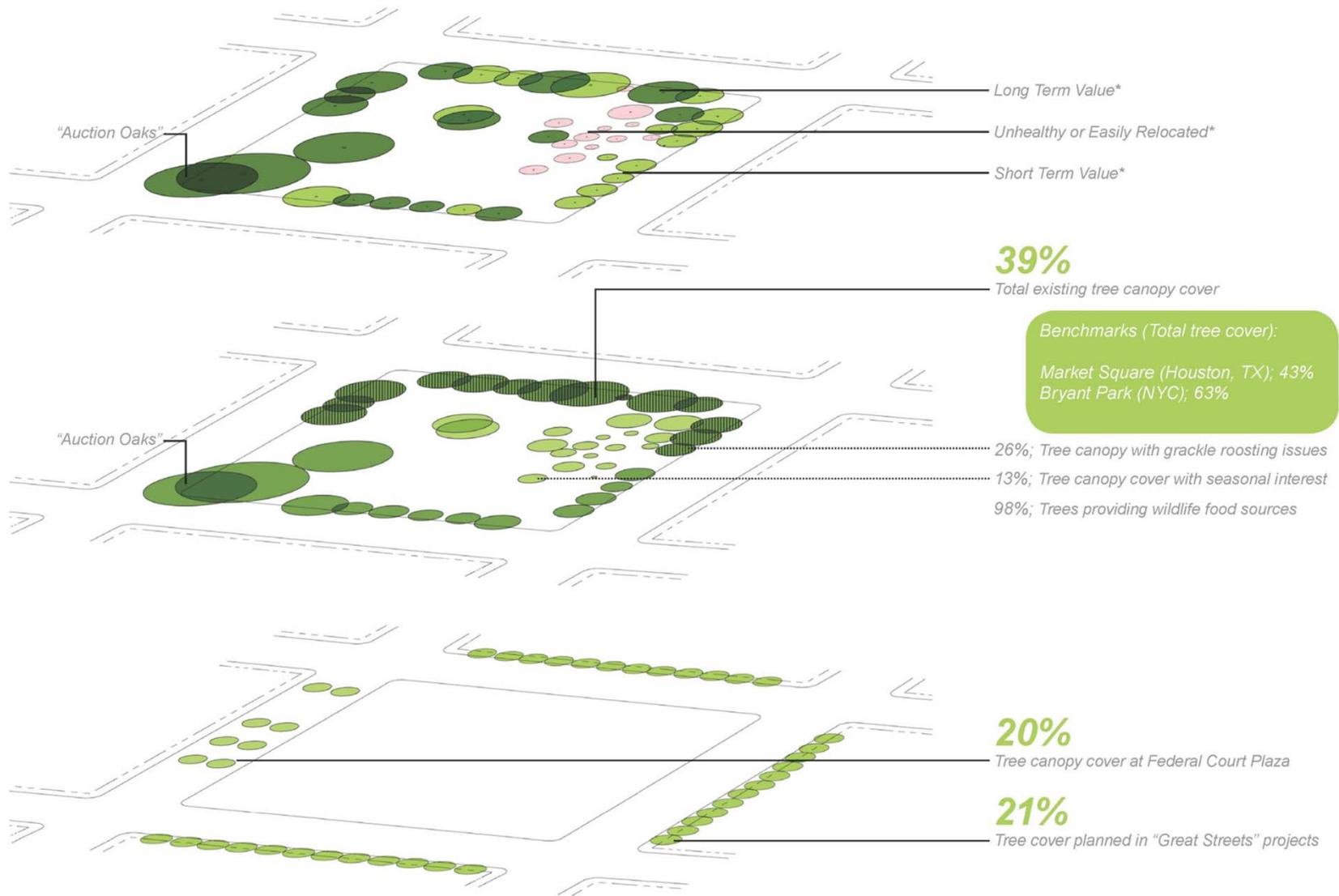
%row as CRZ existing- 60%  
 %row as 50% CRZ existing- 28.5%  
 %row as impervious cover- +-10%;  
 Before plaza- 70%

## Park- 77,294sf

%site as CRZ existing (24,923sf) 32%  
 %site as 50% CRZ ex. (7,349sf) 9.5%  
 % of site as impervious cover- 15%



# TREE ANALYSIS



# REPUBLIC SQUARE – PREFERRED CONCEPT



# REPUBLIC SQUARE- PREFERRED CONCEPT



# PROJECT PLAN

## Legend

- A: Public Transit Corridor
- B: 5th St Corridor
- C: 4th St Corridor
- D: Federal Courthouse Plaza
- E: Auction Oak Area
- F: Existing Deck
- G: Main Lawn
- H: Seat Walls
- I: Arc Promenade
- J: Seating Area
- K: Plaza
- L: Promenade
- M: Restaurant Kiosk
- N: Support Building



# CRZ IMPACTS



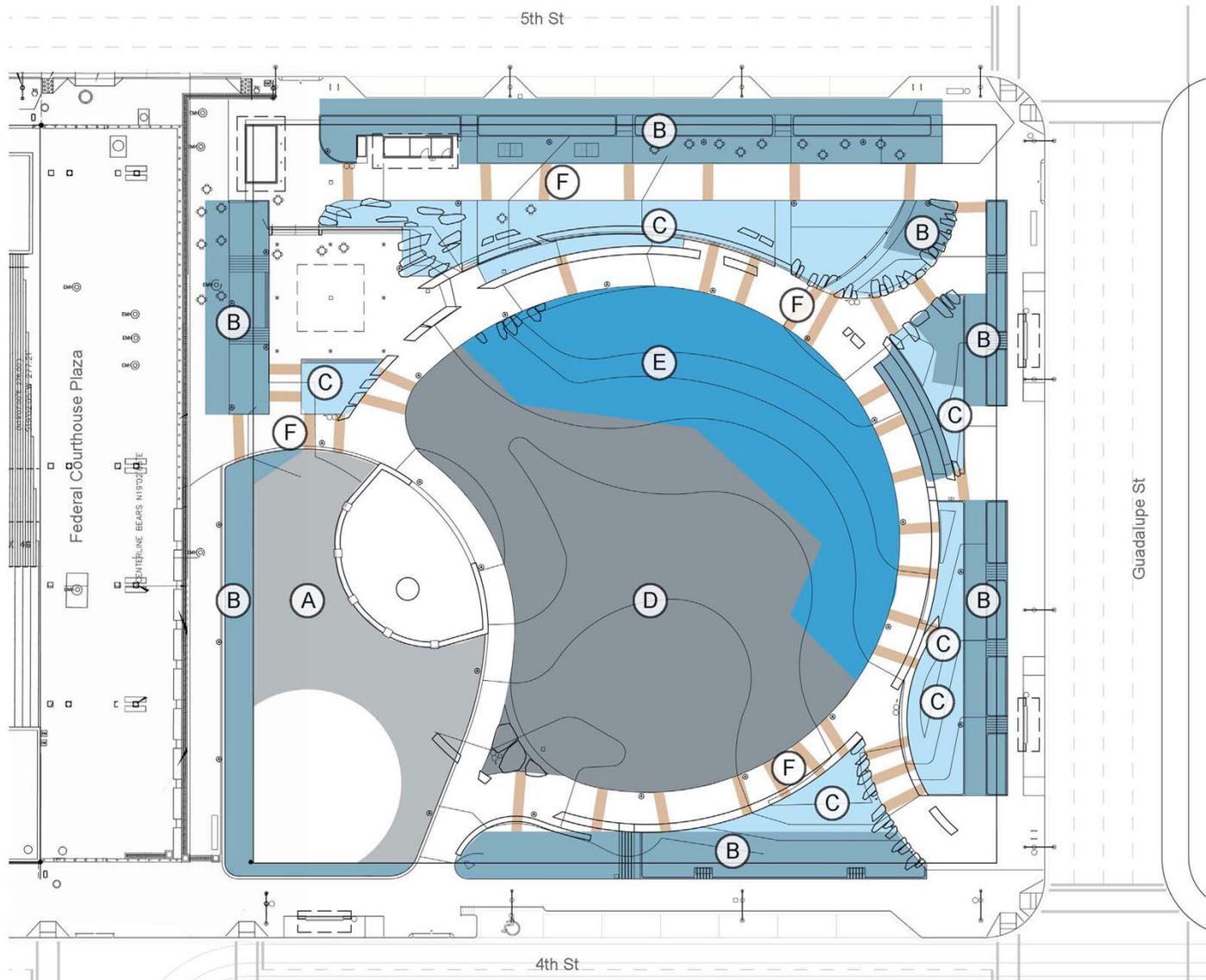
5th street; No new impact as proposed, 4th street; No new impact as proposed, Guadalupe street; No new impact as proposed

**San Antonio street (plaza); 3355sf**  
%row as CRZ existing- 60%  
%row as 50% CRZ existing- 28.5%  
%row as impervious existing- +-10%  
% of row as impervious proposed- 27%  
% of "impact" on site CRZ proposed- 547sf of 2025sf= 27%  
% of "impact" on site 50% CRZ proposed- 58sf of 962sf= 6%  
Maximum impact to 50% CRZ on an individual tree- 50 of 258sf= 19%

**Park- 77,294sf**  
%site as CRZ existing (24,923sf) 32%  
%site as 50% CRZ existing (7,349sf) 9.5%  
% of site as impervious cover existing- 15%  
% of site as impervious cover proposed- 38%  
% of "impact" on site CRZ proposed- 5201sf of 24923sf= 21%  
% of "impact" on site 50% CRZ proposed- 72.5sf of 7,349sf= 1%  
Maximum impact to 50% CRZ on an individual tree- 15 of 254sf= 6%



# SOILS PLAN



- A- Meadow Soils- Shallow section of new soils that provide for native seeding
- B- Decompaction and amendments per PARD direction/specifications
- C- New amended soils- imported planting soils (12"-42" depth)
- D- Turf Profile (12" depth minimum)- Sandy soils with subsurface drainage
- E- Slope Turf Amendments- Decompaction and Topdressing
- F- Soil Tunnels- 24"x24" chambers of amended soils connecting larger soil zones



# TREE PLAN



STREET TREE REPLACEMENT  
WITH RED OAKS OVER TIME

BURR OAK  
REDBUD

BIGTOOTH MAPLE  
ANACACHO ORCHID  
RELOCATED TREES

- 50% PROPOSED TREE COVER
- INCREASED SPECIES DIVERSITY
- INCREASED WILDLIFE FOOD SOURCES
- INCREASED SEASONALITY



# PRELIMINARY PARD FORESTRY RECOMMENDATIONS

1. Avoid impacts to full critical root zone (CRZ) of existing trees wherever possible. Impacts include cut, fill, and/or compaction of the soil.
2. Do not impact the half CRZ of any tree to be preserved. Impacts include more than 4” of cut or fill and/or compaction of the soil.
3. Trees that have impacts in excess of allowable amounts must be shown to be removed and mitigation planned.
4. Existing tree canopy heights must take precedence over vertical clearance needs for equipment and materials needed for construction, therefore plans must account for design implementation.
5. Maintenance management plans for landscape elements including the meadow under the Auction Oaks and trees proposed for transplant must clearly set expectations for the establishment and care of the landscape, and include a 5-year maintenance plan and an alternative plans if the landscape does not establish. Any landscape work within the full CRZ of the Auction Oaks must be done by hand.
6. Expand oxygen and water availability to tree roots by performing soil aeration and amending within the full critical root zones of trees wherever CRZ bulk density tests indicate a need. To the extent possible, expand the amount of rooting space available to all existing trees
7. New plantings shall be given adequate rooting space and must be spaced appropriately to accommodate their full mature size
8. Any new hardscape within the full critical root zone (CRZ) of any tree should allow root growth and water infiltration after installation
9. ADA accessibility requires an 8-foot clearance over ADA designated pathways. Ensure that tree pruning of over 25% of the live canopy will not be required to meet ADA clearance requirements over new ADA designated pathways.

